

Metro Train Prototype with Project Report

ajay_bhargav, Wed Mar 26 2014, 04:50 pm

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It has been a long long time since I posted a new project on our website. Today I looked in to all my old emails and checked all pending projects which were not uploaded. I want to thank Gaurav Sharma for submitting this wonderful project. I Hope to see more contribution from him.

Metro Train is one of the biggest transporation medium in Delhi connecting all ends of Delhi together. This project is a very simple train prototype of current Metro Train. This prototype is powered with 8-bit 8051 microcontroller. As you know Metro trains run in one direction at a time, so prototype uses only one motor to move the forward. There is an additional motor which is used to open and close the doors of train. LCD is used to display welcome message, current station and next station messages. A buzzer is there to indicate opening and closing of doors.

Working Of Metro Train:

When the power is turned on a message ("welcome to Bhopal metro") is displayed on LCD. Then a message "Current station is Indrapuri" is displayed and door is opened. A buzzer is also turned on when door opens. After some delay the door is closed and car is started to move forward. A message "current station is Indrapuri" is displayed also on LCD. After some time a message indicating the next station is displayed "next station is M P Nagar". After some time the train stops and a message "current station is M P Nagar" is displayed. This process is continued for five stations. In the end a message "End of line" is displayed on LCD. This whole process is repeated until we turned off the power supply.

A big thanks to Gaurav Sharma for submitting this project.

Go to download section to download project files: [Metro Train Prototype Project with Project Report](#)